

MAZDA CLOSED

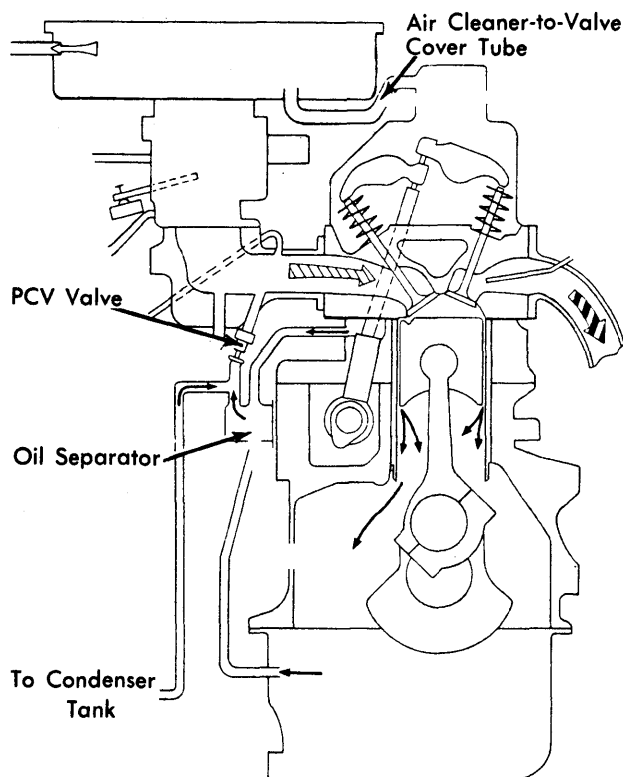
1200
1800
616
808
RX2 & RX3
R100

DESCRIPTION

The Mazda closed crankcase ventilation system consists of a PCV valve, oil separator and various connecting hoses. The crankcase ventilation system is combined with the fuel evaporation emission control system and serves to purge this system.

OPERATION

Piston Engines — Air enters system through air cleaner to rocker arm cover. Blow-by gases and ventilation air enters ventilation tubes and flows into oil separator. In oil separator, any oil present is separated from blow-by gases and fuel fumes from condenser tank are mixed with blow-by gases. This mixture then passes through the ventilation valve and into the intake manifold.



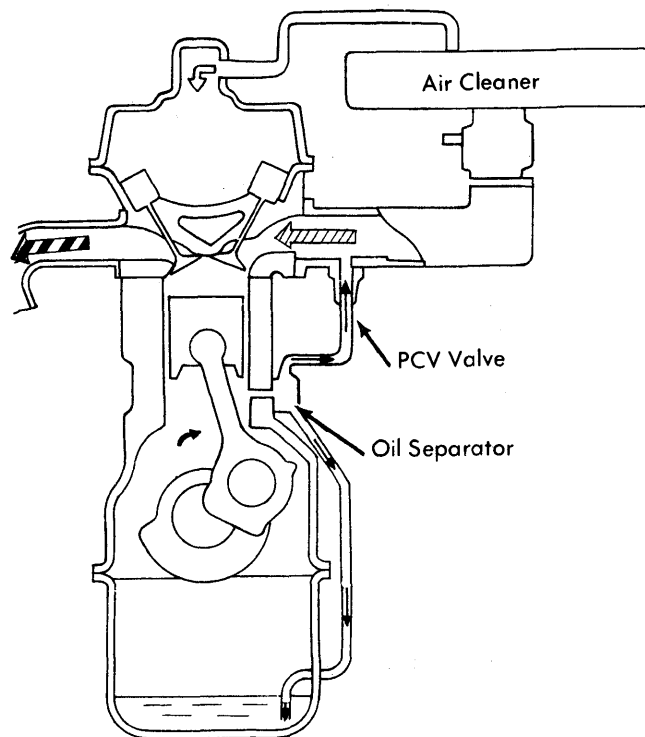
2SM006

MAZDA 1200 & 616 CRANKCASE VENTILATION SYSTEM

Rotary Engines — On early models, air enters system through air cleaner to charcoal canister of the fuel evaporative emission system. From canister, ventilating air flows into engine space with any fuel fumes, thus purging canister. The ventilating air mixes with blow-by gases and flows into oil separator, located in the oil fill tube. From here mixture flows through the PCV valve and into intake manifold. On RX2 models, an additional vent line is connected from the PCV valve to condenser tank. On late models, ventilating air from air cleaner enters engine air space. Flowing through engine air space, air carries engine blow-by gases which flow into ventilation valve. This valve regulates the amount of air flow to meet changes in operating conditions of engine.

MAINTENANCE

Clean and check ventilation system every 12,000 miles. On rotary engine models, check system by connecting a vacuum gauge between ventilation valve and oil fill tube. With engine running at 2500-3000 RPM, vacuum reading must be under 2.36" (60 mm) Hg.

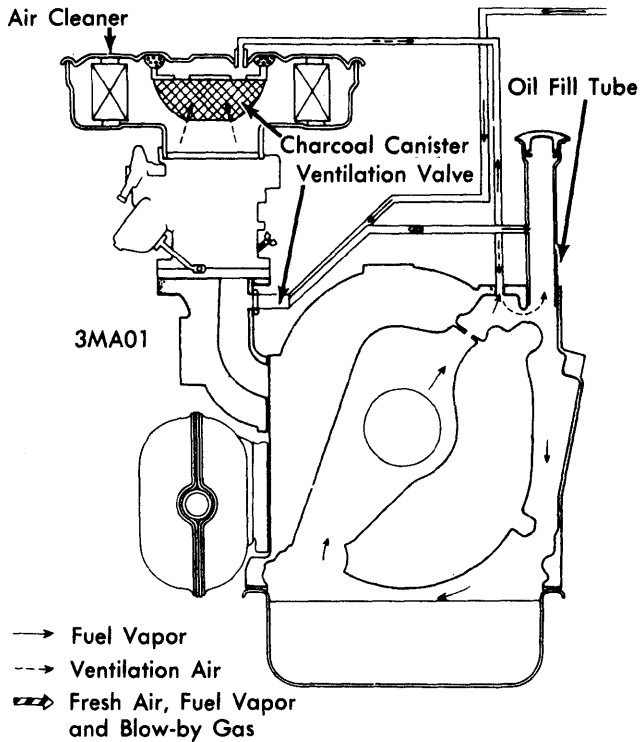


3SM165

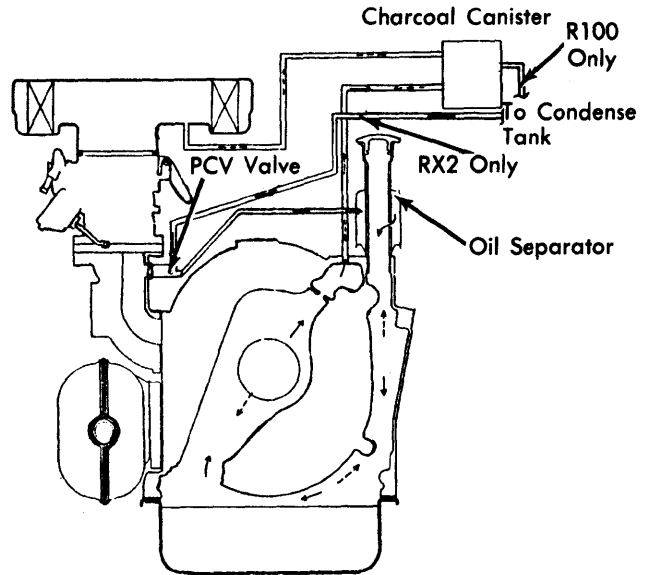
808 & 1800 PISTON ENGINE CRANKCASE VENTILATION SYSTEM

Crankcase Ventilation

MAZDA CLOSED (Cont.)



**CRANKCASE VENTILATION SYSTEM
RX2 & RX3 (1972-73)**



2SM007

**CRANKCASE VENTILATION SYSTEM
R100 & RX2 (1971)**